

Remarks

This case has been carefully considered in light of the Office Action dated June 29, 2005 wherein: the petition seeking to correct inventorship was deemed deficient for a deficient chain of title; and claim 1 was rejected under 35 USC 102 on Pettey et al. U.S. Pat. No. 6,594,712. Reconsideration is respectfully requested.

The specification has been amended to correct typographical and grammatical errors. No new matter has been added.

Claim 1 has been amended. Claim 1 has been amended, in part, to substitute the term “communication descriptors” for “communication parameters”. The term “communication descriptors” has been used consistently used throughout the specification, and the amendment is made to be consistent therewith. Further amendments to claim 1 are made to clarify the language thereof. No new matter has been added.

Claims 2-18 have been added. Claims 1-18 are now pending in this case.

Claims 2-9 are dependent on claim 1. Claim 2 involves preloading data, and support therefor is found in the specification on page 4, line 3, and on pages 83-84, for example. Support for added claim 3 is found, for example, in the first paragraph of page 3 of the specification. Claim 4 involves providing descriptor lists of control commands as described throughout the specification, such as, for example, on the last line of page 11 of the specification. Support for claim 5 is found, for example, on page 12, lines 18-24, of the specification. Support for claim 6 is found, for example, in the paragraph coupling pages 13 and 14 of the specification. Support for claim 7 is found, for example, on page 14, lines 10-22, of the specification. Support for claim 8 is found, for example, in the third full paragraph on page 4 of the specification. Support for claim 9 is found in the second and third paragraphs on page 3 of the specification. No new matter has been added.

Claims 10-18 are system claims corresponding respectively to method claims 1-9, respectively. Support for these claims is found in the specification in similar manner, for example, as described hereinabove for the method claims. No new matter has been added.

Regarding the petition to correct inventorship, the applicants respectfully submit herewith copies of the assignments signed by inventors Walker B. Carroll, Carl A. Bender, and Gregory Salyer. The applicants also submit herewith a copy of the Notice of Recordation of Assignment Document of the United States Patent and Trademark Office indicating recordation of the assignments of all three inventors to the assignee. Therefore, the applicants respectfully submit that the chain of title is not deficient and thus respectfully request that the objection to the petition as having a deficient chain of title be withdrawn.

The patent to Pettey et al. describes an Infiniband channel adapter having a local bus interface for coupling the channel adapter to an input/output (I/O) controller by a local bus. The local bus interface receives data from the I/O controller if a local bus address of the data is within a predetermined address range of the local bus address space. In addition, the channel adapter includes a bus router for creating an Infiniband Remote direct Memory Access (RDMA) Write packet, including the data in response to the local bus interface receiving the data from the I/O controller. The channel adapter transmits the packet to a remote Infiniband node that previously requested the data.

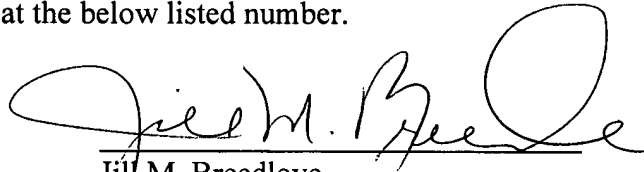
In Pettey, the mechanism for sending a packet or a series of packets is designated as the Work Queue Element (WQE). This is shown in Figs. 7a and 7b, and is described in column 11, line 18 et seq. Further description of the WQE elements and uses are shown and described in Figs. 8-16 and column 12-15. Pettey et al. do not teach or suggest anywhere in their patent the use of multiple WQE's (or commands) to build a single message packet. Moreover, in column 11, lines 21-24, of Pettey, the action of sending a message is depicted (see Fig. 7b) as involving creating a single WQE.

By way of contrast to Pettey, the applicants have provided a communications system and method that assembles a single message packet "for direct memory to memory transfer from said first node to said second node, said message packet comprising a single message packet comprising data from disparate memory locations in said first node, wherein the communication descriptors determine the disparate memory locations in said first node from which said message packet is assembled", as recited in claim 1, and similarly in claim 8. Indeed, unlike Pettey, the applicants advantageously employ a plurality of communication descriptors for assembling and

transferring a single message packet, comprising data assembled from disparate memory locations, while Pettey's mechanism is restricted to a single "WQE", as described hereinabove. Thus, even assuming *arguendo* that Pettey's single "WQE" can be equated to a communication descriptor of the applicants, Pettey only describes a single WQE, and there is no teaching or suggestion in Pettey that a single message packet can be constructed from data from multiple source memory locations ***using multiple communication descriptors that are being determined during data processing***, as described by the applicants and recited in their claims.

For the foregoing reasons, claims 1-18 are believe to be patentably distinct from Pettey et al. under 35 USC 102(e). Reconsideration and allowance of these claims are thus respectfully requested.

Should the Examiner have any further concerns regarding this application, he is invited to contact Applicants' representative at the below listed number.



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Docket No.: **POU920030203US1**

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A S S I G N M E N T

Whereas, We

Inventor (1)	Walker B. Carroll County of Middlesex	of Waltham, and State of Massachusetts,
Inventor (2)	Carl A. Bender County of Ulster	of Highland, and State of New York,
Inventor (3)	Gregory Salyer County of Dutchess	of Poughkeepsie, and State of New York

have invented certain improvements in **Transferring Message Packets from Data Continued in Disparate Areas of Source Memory via Preloading**

and executed, respectively, a United States patent application therefor on

(1) March 16, 2004, (2) March , 2004, and (3) March , 2004.

Whereas, **INTERNATIONAL BUSINESS MACHINES CORPORATION**, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM,) desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefor;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, and, the above named, hereby sell, assign, and transfer to IBM, its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and all rights of priority resulting from the filing of said United States application, and we request the Commissioner of Patents and Trademarks to issue any Letters Patent granted upon the inventions set forth in said application to IBM, its successors and assigns; and we hereby agree that IBM may apply for foreign Letters Patent on said invention and we will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

Signed

(1) at Waltham, MA

on March 16, 2004Walker B. Carroll

WALKER B. CARROLL

(2) at Poughkeepsie, NY

on March, 2004CARL A. BENDER

CARL A. BENDER

(3) at Poughkeepsie, NY

on March, 2004GREGORY SALYER

GREGORY SALYER

Docket No.: **POU920030203US1**

Page 1 of 1

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and executed, respectively, a United States patent application therefor on

(1) March , 2004, (2) March 8 , 2004, and (3) March 8 , 2004.

Whereas, **INTERNATIONAL BUSINESS MACHINES CORPORATION**, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM,) desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefor;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, and, the above named, hereby sell, assign, and transfer to IBM, its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and all rights of priority resulting from the filing of said United States application, and we request the Commissioner of Patents and Trademarks to issue any Letters Patent granted upon the inventions set forth in said application to IBM, its successors and assigns; and we hereby agree that IBM may apply for foreign Letters Patent on said invention and we will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

Signed

(1) at Waltham, MA

on March , 2004

WALKER B. CARROLL

(2) at Poughkeepsie, NY

on March 8 , 2004

CARL A. BENDER

(3) at Poughkeepsie, NY

on March 8 , 2004

GREGORY SALYER

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DOC DATE: 03/16/2004

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DOC DATE: 03/08/2004

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